

The Deformation of Metals and Alloys by Torsion at
High Temperatures, by D. Hardwick, W. J. Tegart.

FRENCH, per, Memoires (Les) Scientifiques de la
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pp 569-580.

BISI 2995

Sci - m/a

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Contribution to the Study of the Effect of Nickel
(up to 9%) on the Mechanical Properties of Steels
at Low Temperature, by M. Kron, A. Constant,
A. Clerc, et al.

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RISI 2690

Sci - w/m

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FABRICATION OF MAGNETIC SHEET, BY C. DECROLY,
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PP 915-926.

BISI 2786

SCI - MIN/ METALS

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Surface Tension of Molten Iron and Its Alloys,
Part III, by P. Kosakévitch, G. Urbair.

FRENCH, per, Mémoires (Les) Scientifiques de la
la Revue de Métallurgie, Vol LXXIII, Dec 1961,
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BIBI 2609

Sci - m/n

Jan 63
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X-RAY CRYSTALLOGRAPHIC STUDY OF NON-METALLIC
INCLUSIONS IN STEELS AND RESEARCH INTO THEIR ORIGINS,
BY M. FERRERO, G. TIMO, F. CRETON.

FRENCH, PER, MEMOIRES (LES) SCIENTIFIQUES DE LA
REVUE METALLURGIE, VOL LIX, JAN 1962, PP 75-78.

BISI 2784

SCI - MIN/METALS

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Use of the Potentiostat for Metallo-
graphic Etching, by J. Voeltzel, et al.
FRENCH, per, Rev. Met. Mem. Sci. Vol 62,
Feb 1962, pp 129-134.
BISI 4427

Sci/HQM
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Influence of the Speed of Testing on the
Resistance of Metals to Plastic Deformation, by
A. Krupkovskiy, A. Litwora.

FRENCH, per, Les Memoires Scientifiques de la
Revue de Metallurgie, Vol LIX, 1962, pp 147-159.

BT3I 2906

Sci - M/M
Feb 63

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Contribution to the Study of the Plastic
Deformation of Sheet Metals Materials, by
G. Jegaden, J. Voinchet, P. Rocquet.

~~FRENCH, per, Memoires (Les) Scientifiques de la
Revue de Metallurgie, Vol LX LIX, No 4, 1962,
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BISI 3015

Sci - m/m

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FRENCH, per, Memoires Scientific, Revue de Metall,
No 5, 1962, pp 357-363.

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*UKAEA Springfield
Tr No 113

Sci - Min/Met
28 Feb 1963

Determination of Nitrogen and Identification of
Aluminum Nitride in Case Steel, by V. Kuhn,
P. Detres.

FRENCH, per, Memoires (Les) Scientifiques de la
Revue de Metallurgie, Vol LIX, Jan 1962,
pp 405-415.

BISI 3014

Sci - Chem

Jan 63

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Analysis of Sheet Texture in Relation
to Stamping Behaviour, by M. Angeli et al.
FRENCH, par, Rev. Met. Min. Sci., Vol 59,
No 6, 1962, pp 441-453.
BISI 4909

Sci-Materials
Oct 66

313,173

Bastien, P. and Colombie, M.
OXIDATION OF IRON AND STEELS BY CARBONIC
ANHYDRIDE WITH HEAT AND UNDER PRESSURE
(Oxydation du Fer et des Aciers par l'Anhydride Car-
bonique à Chaud et sous Pression). [1963] [19]p. (for-
eign text included) 13 refs.
Order from SLA \$1.60

63-14078

Trans. of Revue de Métallurgie. Mémoires
Scientifiques (France) 1962, v. 39, no. 6, p. 454-460.

DESCRIPTORS: *Iron, *Steel, Oxidation, *Corrosive
gases, *Carbonic acids, Anhydrides, Heat, Pressure,
Corrosion, Reaction kinetics, Whiskers (Crystallu-
graphy), Microstructure, X-ray diffraction analysis.

The pressure of the oxidant gas has an influence on
the phenomenon of corrosion of iron and steels by
carbonic anhydride. This oxidation reaction is tri-
(Metallurgy--Corrosion TT, v. 10, no. 6) (over)

63-14078

I. Bastien, P.
II. Colombie, M.

Office of Technical Services

Thermodynamic Analysis of Prolonged-Tension
Tests, by W. Siegfried.
FRENCH, per, Revue de Metallurgie. Memoires
Scientifiques, Vol 59, 1962, pp 501-526.
NTC-71-15070-11F

Feb 72

Nature and Morphology of Transformation Products,
Part I, by R. Castro, R. Tricot.
FRENCH, per, Memoires Les Scientifiques de la Revue
de Metallurgie, Vol LIX, No 9, 1962, pp 571-586.

BISI 8486

Sci - M/M
Feb 64

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Influence of Carbon and of Nitrogen, Part II, by L. C. Castro,
R. Tricot.
FRENCH, per, Memoires Les Scientifiques de la Revue
de Metallurgie, Vol LIX, No 9, 1962, pp 587-596.

ISI 3436

Sci - M/M
Feb 64

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Some Observations Concerning the Influence of
Oxidation on Creep in a Mild Steel (Armco Iron),
by O. Pear, J. Morcau.

FRENCH, per, Les Memoires Scientifiques de la
Revue de Metallurgie, Vol LXX, Oct 1962,
pp 629-642.

BIBI 3311

Sci - M/H
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Kohn, A.

STUDY BY THERMAL ANALYSIS OF THE SOLIDIFICATION OF STEELS (WITH DISCUSSION) [1963] 38p (figs. omitted) 17 refs

Order from SLA \$3.60

63-20053

Trans. of Revue de Metallurgie, Mémoires Scientifiques (France) 1962, v. 59, p. 713-734.

DESCRIPTORS: *Steel, *Alloys, *Iron, *Phase studies, Microstructure, Crystal structure, Austenite, *Transformations

Twenty-five different alloys, including high purity metals, prepared in the laboratory and industrial steels of various kinds were studied. The irons without carbon showed very strong supermelting (to nearly 180°C). All of the irons observed did not show very high supermelting. The presence of deoxidizers in the metal like (Metallurgy, TT, v. 10, no. 12)

63-20053

I. Kohn, A.

Office of Technical Service

Contribution to the Study of the Effect of Purity
on Internal Friction, by F. Dabosi.
FRENCH, per, Rev Met Mem., Vol 59, 1962, pp 784-799.
*NBS/NBS TT 71-55217
Available NBS Only

July 71

Micrographic Fracture Study of Fractures of Stainless Steel Specimens Cracked by Stress Corrosion,
by E. Mancarelli,
FRENCH, per, Rev Mat Mem Sci, Vol 59, Dec 1962,
pp 809-817.
BISI 6074

Sci-Mat
June 70

Economopoulos, M., Greday, T., and Habraken, L.
SOME ASPECTS OF THE BAINITE STRUCTURE IN
CARBON STEELS OF VARIABLE MANGANESE AND
MOLYBDENUM CONTENT. [1963] [31p] 12refs
Order from SLA \$3.60 63-20572

Trans. of Revue de Metallurgie. Memoires Scienti-
fiques (France) 1963, v. 60, no. 1, p. 11-22

DESCRIPTORS: *Steel, *Molybdenum alloys, *Man-
ganese alloys, Carbon alloys, *Microstructure,
*Bainite, Cooling, Austenite, Grain structures
(Metallurgy), Transformations.

With the combination of dilatometry, thermal analysis,
and electron metallography, demarcation was made of
the bainitic domains in steels with 0.2% C, containing
either 1.3 to 1.9% Mn, or 0.03 to 1.5% Mo. The TTT
curves thus obtained are valuable when the steel is
(Metallurgy--Ferrous Metals, TT, v. 10, no. 12(over)

63-20572

- I. Economopoulos, M.
- II. Greday, T.
- III. Habraken, L.

Office of Technical Services

On the Graphitizing Effect of the Carbide-
Forming Element Titanium in Cast Irons,
by E. Sorel; J. Vidts.

FRENCI, per, Rev. Met. Mon. Sci., 1963, 60,
Jan., 41-46.

*BISI 4021

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New Method for Determination of Diffusion Activation
Energies. Application to Uranium Monocarbide, by
A. Accary, J. Trouve, 10 pp.
FRENCH, per, Memoires Scientifiques de la Revue de
Metallurgie, Vol LX, No 2, 1963, pp 117-124. 9219776

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Sci-Nucl Sci
Mar 64

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The Influence of Certain Dissolved Elements on the Rate
of Nitrogen Dissolution in molten Iron, by
P. Kozakevitch, G. Urbain.
FRENCH, per, Les Memoires Scientifiques de la Revue de
Metallurgie, Vol LX, No 2, 1968, pp 148-156.

HISI 3369

Sci - M/M
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Effect of Adhesion Between Punch and Sheet and the
Rate of Deformation in the Fiskel Cupping Test,
by M. Grumbach, G. Pompey.
FRENCH, per, Memoires Sci. de la Revue de
Metallurgie, Vo. 60, No 5, 1963, pp 371-376.
HB 6019

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7 The Method of Continuous Calorimetry-Applied to the
Fe-C System, by M. Genot.

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*NTIS/NBS TT 71-55220

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Thermal Testing in Vacuum Applied to the
Measurement of Austenitic Grain Size in Steel,
by M. T. Leger, P. Detrez.
FRENCH, per, Mémoires Scientifiques de la Revue
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BISI 3571

Sci - Engr
Aug 64

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Certain Properties of Ferrous Oxide,
G. Vagnard, J. Manenc.
FRENCH, per, Rev. Met. Mem. Sci.,
Vol 60, Sep 1963, pp 625-636.
BISI 4246

Sci/HEM
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Internal Friction Study of the Influence of Unitral
Heat Treatment on Ageing After Tempering of a Low
Carbon Steel, by J. P. Villain.
FRENCH, per, Rev Met Mem Sci., Vol 60, 1963, pp 676-80.
*NTIS/NBS TT 71-55234
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July 71

Study of Sintering of a Powder of Iron Pyrophoric,
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FRENCH, per, Rev Met Man Sci, Vol 60, 1963,
pp 771-784.
*CFSTI TT 70-58222

Sci-Chem
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Self-Diffusion of Iron Into Iron Protoxide, by
P. Desmarescaux. 8 pp.
FRENCH, per, Mem Sci Rev Mat, Vol 60, 1963,
pp 899-906.
*MBS TT 70-57552

Sci-Mat
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Messager, C. and Herzog, E.
NEW METHOD OF PRODUCING Fe-Al ALLOYS
WITH HIGH ALUMINUM CONTENTS: CERTAIN
ALLOY PROPERTIES. Jan 64 [8p] 1 ref
Order from SLA \$1.10 TT-64-14307

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Memoires Scientifiques (France) 1963, v. 60,
no. 11, p. 753-761.

DESCRIPTORS: *Steel, Diffusion, *Aluminum
alloys, *Iron alloys, Mechanical properties,
Rolling mills.

(Metallurgy, TT, v. 11, no. 7)

TT-64-14307

I. Messager, C.
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Office of Technical Services

The Behaviour of Small Amounts of Phosphorus and
Arsenic Present in Iron During Oxidation of the Metal
When Heated, by F. Vodopivec, A. Kohn, et al.
FRENCH, per, Les Memoires Scientifiques de la
Metallurgie, Vol LX, Nov 1963, pp 801-818.
BISI 3750

Sci-M/M
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Study of the Phase Diagram of the Ternary System:
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FRENCH, per, Les Memoires Scientifiques de la Revue
Metallurgie, Vol LX, Nov 1963, pp 785-786.
BISI 3753

Sci-M/M
Feb 65

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Experimental Study of Austenite Formation in
High-Nickel Steels, by P. Legendre, X. Macho.
FRENCH, par Les Mémoires Scientifiques de la
Revue de Metallurgie, Vol LXI, No 1, 1961,
pp 33-42.
BISI 3728

Sci - M/M
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Nomarski's Interferometer Methods Used for
Sign Determination of Microcontours, by R. Lignon.
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NTC-71-15537-11F

Feb 72

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BISI 4493

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FRENCH, per, Rev. Mat. Man. Sci., Vol 64, Feb
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FRENCH, per, Revue de Metallurgie. Memoires
Scientifiques, Vol 61, 1964, pp 141-147
NTC 71-15280-11F

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Role of Cations in the Electrical Conductivity of
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FRENCH, per, Mém Sci Rev Metal, Vol 61, 1964,
pp 157-169.
*Nat Bur Stand TT 70-57891

Sci-Chem
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Direct Analysis of Gas and Other Metals in
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Ultraviolet Range, by R. Barnard, J. R. R. R.
FRENCH, per, Memoires Scientifiques de la
Revue de Metallurgie, Vol LXI, No 3, 1964,
pp 209-220.
REF BIBI 5733

Sci - M/M
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Taking Rod-type Specimens by Aspiration
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Mar 1964, pp 221-228.
BISI 4073

Sci/MMM
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Contribution to the Theory of the Elastic Limit of
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NASA TT F1964-9102

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Using the Electron Transmission Micro-
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BISI 4209

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Study of the Possibilities of Producing Zirconium Metal
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by C. Decroly, S. Fontana, et al, 32 pp.
FRENCH, per, Memoires Scientifiques Revue de la
Metallurgie, No 4, 1964, pp 287-298. 9226306
AEC-Tr-6501

Sci-M/M
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Using the Electron Transmission Micro-
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Structures of High-Purity Iron; II -De-
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Annealing, by P. Morgand.
FRENCHI, per, Rev. Met. Man Sci, Vol 61,
May 1964, pp 361-377.
BISI 4210

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Kinetics of the Precipitation of Carbon
After - Quenching in Fe-C Alloys,
by P. Chollot, C. Crussard.
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May 1964, pp389-397.
BISI 4076

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Diffusion of Sulphur and Phosphorous in
the Solid State, by G. Seibel.
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Plutonium-Magnesium Diffusion, by A. Van Craeynest,
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*NBS TT 71-53052

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Treatments, by C. Gasc, J. Barbier.

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No 6, 1964, pp 475-480. 9230446

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ORNL-Tr-720

Sci=Engr

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Study of Ageing of Low Carbon Steels
Between 20 and 100° C, After
Quenching and After Cold Working (with
discussion), by J. de Fougues, et al.
FRENCH, Rev. Met. Ind. Sci., 1964, Vol 61,
Jul-Aug 1964, pp 525-542.
*BISI 3991

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Effect of Low Boron Additions on the
Structure and Properties of a 18-10
Stainless Steel, by E. Pouillart,
FRANCO, per, Rev. Int. Phys. Sci.,
Vol 61, Oct 1964, pp 657-676.
DISI 4308

Sci/441
Oct 65

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Study of the Decomposition of Ferrous Oxide,
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61, Oct. 677-686.
*BISI 4063

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Study of the Elimination Between 60
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pp 827
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Application of Radiotracers to the Study of
Structure and Self-diffusion in Two-phase,
Alloy Fe-Mo (2% Mo), by M. Anceuturier. 10 pp.
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Ethnography of the Southwest of Angola, by
Father Carlos Estermann, 299 pp.
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& Etnologica, Vol 2, 1960.
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Contribution to the Study of the Interactions of
Clay and Organic Matter Adsorption of Amino Acids
by Montmorillonite, by Odette Sissicini.

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CPSTI TT 67-51267

Sci/Agri
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The Transformation of Clay Minerals During
Sedimentation - A Study on Triassic Clays,
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Available on loan from SLA TT-63-20522

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(Chemistry--Organic, TT, v. 11, no. 1)

TT-63-20522

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Petiques, Genevieve.
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[1961] 17p. (12 figs. omitted).
Order from SLA \$1.60

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Trans. of Mémorial des Services Chimiques de l'
Etat (France) 1948, v. 34, p. 125-137.

DESCRIPTORS: Water, Solutions, *Cellulose, Chemical
reactions, *Cellulose chemistry, Test methods, Tex-
tiles, Fibers, Absorption.

(Materials--Textiles, TT, v. 6, no. 9)

61-18260

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Calvet, Edward.
THE MERCERIZATION OF CELLULOSE BY SODA.
[1961] 24p. (5 figs. omitted) 8 refs.
Order from SLA \$2.60

61-18257

Trans. of Mémorial des Services Chimiques de l'Etat (France) 1948, v. 34, p. 163-177.

DESCRIPTORS. *Cellulose, Processing, *Sodium compounds, *Hydroxides, Absorption, Temperature, *Cotton textiles

At ordinary temperatures mercerized cellulose absorbs sensibly the same amount of soda whatever may be the concentration of the solutions used between 2N and 5N, while, for higher temperatures, around 40°, there is no important difference between the absorption of soda by mercerized and unmercerized celluloses. (Author)
(Materials--Textiles, T.F. v. 7, no. 1)

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Investigations on Electro-Adsorption, by
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**Sensitivity Reactions of Lactic and Glycolic
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Conditions of Occurrence of Albite in Quartz Gold
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NLL 128 2187 (1/2/56)

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Mémoires, 1928, p. 266-300.

(Materials--Ceramics, TT, v. 12, no. 1)

TT-64-14029

I. Portevin, A.

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The ~~Role~~ of Inert Matter in Concrete, by A. Lequot.
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Some Applications of Photoelastic Measurements,
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Order from SLA \$3.60

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